

**APPENDIX B**

**Climate Data**

**Stead, Nevada**

**(267820)**



## Climate Data from Stead, Nevada (267820)

### Period of Record Monthly Climate Summary

*Period of Record: 3/9/1985 To 12/31/2007*

AVERAGE MONTHLY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ANNUAL
Max. Temperature (F)	43.1	47.3	55.2	61.5	69.7	79.7	88.3	87.0	78.1	67.2	52.6	43.5	64.4
Min. Temperature (F)	21.1	24.5	29.8	34.3	41.2	48.4	55.1	53.1	44.9	36.0	26.6	21.6	36.4
Total Precipitation (in.)	1.60	1.98	1.36	0.60	0.60	0.56	0.31	0.26	0.53	0.59	0.97	1.94	11.31
Total Snowfall (in.)	2.8	2.1	2.5	0.6	0.1	0.0	0.0	0.0	0.1	0.1	1.8	4.2	14.3
Snow Depth (in.)	1	0	0	0	0	0	0	0	0	0	0	0	0

Percent of possible observations for period of record.

Max. Temp.: 96.1% Min. Temp.: 95.3% Precipitation: 95.7% Snowfall: 93.1% Snow Depth: 85%

Check [Station Metadata](#) or [Metadata graphics](#) for more detail about data completeness.

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Western Regional Climate Center, [wrcc@dri.edu](mailto:wrcc@dri.edu)

## Period of Record General Climate Summary - Growing Degree Days

Station:(267820) STEAD

From Year=1985 To Year=2008

Base <sup>1</sup>	Growing Degree Days <sup>1</sup> for Selected Base Temperature (F)													Annual
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.		
40 M	15	39	139	255	480	722	982	931	645	371	95	21		4695
40 S	15	54	193	448	928	1650	2632	3563	4208	4579	4673	4695		4695
45 M	2	8	59	145	335	573	827	776	497	234	35	6		3497
45 S	2	11	70	214	550	1122	1949	2725	3222	3456	3491	3497		3497
50 M	0	1	16	65	210	428	672	621	354	122	9	1		2500
50 S	0	1	17	82	292	720	1392	2013	2367	2490	2499	2500		2500
55 M	0	0	3	20	112	290	518	466	224	50	1	0		1684
55 S	0	0	3	23	135	425	943	1409	1634	1683	1684	1684		1684
60 M	0	0	0	3	47	169	366	314	114	15	0	0		1027
60 S	0	0	0	3	50	219	585	898	1013	1027	1027	1027		1027
Corn Growing Degree Days <sup>3</sup>														
50 M	15	37	112	182	310	457	620	591	426	274	86	17		3127
50 S	15	52	164	345	655	1113	1733	2324	2750	3024	3110	3127		3127

<sup>1</sup> Growing Degree Day units are computed as the difference between the daily average temperature and the base temperature (Daily Ave. Temp. - Base Temp.) One unit is accumulated for each degree Fahrenheit; the average temperature is above the base temperature. Negative numbers are discarded. Example: If the day's high temperature was 95 and the low temperature was 51, the base 60 heating degree day units is  $((95 + 51) / 2) - 60 = 13$ . This is done for each day of the month and summed.

<sup>2</sup> M = Monthly data. S = Running sum of monthly data.

<sup>3</sup> Corn Growing Degree Day units have the limitations that the maximum daily temperatures greater than 86 F are set to 86 F and minimums less than 50 F are set to 50 F.

Table updated on July 14, 2008

Months with 5 or more missing days are not considered

Years with 1 or more missing months are not considered

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## Period of Record General Climate Summary - Temperature

Station:(267820) STEAD

From Year=1985 To Year=2008

Period	Average			Daily Extreme				Monthly Extreme				Max Temp		Min Temp	
	Max.	Min.	Mean	High	Date	Low	Date	Highest Mean	Year	Lowest Mean	Year	>= 90 F	<= 32 F	<= 32 F	<= 0 F
	F	F	F	F	dd/yyyy or yyyyymmdd	F	dd/yyyy or yyyyymmdd	F	-	F	-	# Days	# Days	# Days	# Days
<b>January</b>	43.1	21.1	31.9	69	31/2003	-10	03/1993	39.2	1986	23.6	1993	0.0	3.5	28.0	0.6
<b>February</b>	47.3	24.5	35.9	69	28/1986	-19	06/1989	42.8	1995	27.0	1990	0.0	1.4	23.1	0.4
<b>March</b>	55.2	29.8	42.5	78	20/2004	7	07/1998	47.5	2004	35.7	2006	0.0	0.2	20.1	0.0
<b>April</b>	61.5	34.3	47.9	83	29/2007	15	04/1999	52.6	1992	42.7	1999	0.0	0.0	11.9	0.0
<b>May</b>	69.7	41.2	55.4	94	28/2003	22	11/2000	62.5	2001	48.3	1998	0.5	0.0	3.8	0.0
<b>June</b>	79.7	48.4	64.1	99	24/2006	30	05/1988	68.5	2006	59.4	1993	3.3	0.0	0.3	0.0
<b>July</b>	88.3	55.1	71.7	105	11/2002	34	18/1987	76.1	2007	64.9	1987	14.9	0.0	0.0	0.0
<b>August</b>	87.0	53.1	70.0	99	12/2004	36	31/1999	73.3	2001	65.1	1989	11.5	0.0	0.0	0.0
<b>September</b>	78.1	44.9	61.5	94	03/2007	26	27/1986	65.0	2001	53.7	1986	1.6	0.0	1.0	0.0
<b>October</b>	67.2	36.0	51.6	88	10/1996	14	09/1985	57.8	2003	47.0	1998	0.0	0.0	8.5	0.0
<b>November</b>	52.6	26.6	39.8	73	01/1999	0	12/1985	47.1	1995	31.4	1994	0.0	0.6	23.0	0.1
<b>December</b>	43.5	21.6	32.3	64	11/2004	-22	22/1990	38.1	1995	23.0	1990	0.0	3.1	26.4	0.5
<b>Annual</b>	64.4	36.4	50.4	105	20020711	-22	19901222	51.6	1992	47.9	1993	31.8	8.8	146.3	1.6
<b>Winter</b>	44.6	22.4	33.4	69	19860228	-22	19901222	38.2	1996	27.5	1993	0.0	8.0	77.6	1.5
<b>Spring</b>	62.1	35.1	48.6	94	20030528	7	19980307	52.7	1992	43.2	1991	0.5	0.2	35.8	0.0
<b>Summer</b>	85.0	52.2	68.6	105	20020711	30	19880605	71.6	2007	64.0	1993	29.7	0.0	0.3	0.0
<b>Fall</b>	66.0	35.8	51.0	94	20070903	0	19851112	54.7	1995	45.0	1985	1.6	0.6	32.6	0.1

Table updated on July 14, 2008

For monthly and annual means, thresholds, and sums:

-- Months with 5 or more missing days are not considered

-- Years with 1 or more missing months are not considered

Seasons are climatological not calendar seasons:

Winter = Dec., Jan., and Feb. Spring = Mar., Apr., and May

Summer = Jun., Jul., and Aug. Fall = Sep., Oct., and Nov.

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## Period of Record General Climate Summary – Precipitation

Station:(267820) STEAD

From Year=1985 To Year=2008

Period	Precipitation												Total Snowfall		
	Mean	High	Year	Low	Year	1 Day Max.	>= 0.01 in.	>= 0.10 in.	>= 0.50 in.	>= 1.00 in.	Mean	High	Year		
	in.	in.	-	in.	-	in.	dd/yyyy or yyyymmdd	# Days	# Days	# Days	# Days	in.	in.	-	
<b>January</b>															
<b>January</b>	1.60	5.98	1995	0.00	1991	1.89	21/1993	6	4	1	0	2.8	12.7	1993	
<b>February</b>	1.98	11.77	1986	0.05	1988	3.05	18/1986	6	4	1	1	2.1	8.5	1993	
<b>March</b>	1.36	7.55	1995	0.01	1997	2.00	10/1995	5	3	1	0	2.5	11.0	2006	
<b>April</b>	0.60	2.65	2006	0.00	1985	0.76	03/1987	4	2	0	0	0.6	8.5	2003	
<b>May</b>	0.60	2.21	1987	0.00	1985	1.42	16/1987	4	2	0	0	0.1	1.2	2007	
<b>June</b>	0.56	1.93	1992	0.00	1994	1.00	04/1989	3	2	0	0	0.0	0.0	1985	
<b>July</b>	0.31	1.81	1990	0.00	1987	0.80	22/1986	2	1	0	0	0.0	0.0	1985	
<b>August</b>	0.26	2.02	1989	0.00	1986	1.06	07/1989	2	1	0	0	0.0	0.0	1985	
<b>September</b>	0.53	3.14	1998	0.00	1993	1.49	27/1998	3	1	0	0	0.1	1.0	1986	
<b>October</b>	0.59	2.87	2004	0.00	1995	1.68	20/2004	3	2	0	0	0.1	1.5	2003	
<b>November</b>	0.97	2.68	2002	0.01	1986	1.60	25/1989	5	2	1	0	1.8	17.0	1985	
<b>December</b>	1.94	9.56	2005	0.00	1989	3.79	31/2005	5	3	1	1	4.2	29.5	1992	
<b>Annual</b>															
<b>Annual</b>	11.31	23.55	1996	6.67	1990	3.79	20051231	48	26	7	2	14.3	33.6	1996	
<b>Winter</b>															
<b>Winter</b>	5.53	14.23	1986	0.81	1992	3.79	20051231	17	10	4	1	9.1	50.7	1993	
<b>Spring</b>	2.56	9.28	1995	0.23	1997	2.00	19950310	13	7	1	0	3.3	11.0	2006	
<b>Summer</b>	1.13	3.76	1989	0.10	2006	1.06	19890807	7	3	1	0	0.0	0.0	1985	
<b>Fall</b>	2.09	5.61	1998	0.50	1995	1.68	20041020	10	5	1	0	2.0	17.0	1985	

Table updated on July 14, 2008

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## Fall 'Freeze' Probabilities (July 31 - Dec. 31)

Station:(267820) STEAD

Temp F	Earliest <sup>1</sup>	10%	20%	30%	40%	50%	60%	70%	80%	90%	Latest <sup>2</sup>
36.5	08/31	09/05	09/07	09/10	09/11	09/16	09/20	09/26	10/03	10/06	10/21
32.5	09/10	09/16	09/21	10/01	10/04	10/06	10/09	10/12	10/17	10/22	11/03
28.5	09/27	10/08	10/13	10/17	10/17	10/20	10/23	10/26	10/27	10/30	11/08
24.5	10/09	10/17	10/20	10/25	10/27	10/28	10/30	11/02	11/08	11/14	11/18
20.5	10/09	10/20	10/27	10/31	11/04	11/07	11/09	11/12	11/19	11/21	12/02

### [Graphic Output](#)

<sup>1</sup> **Earliest** - Earliest date when a minimum temperature below the threshold occurred.

07/31 means the minimum temperature can go below the threshold temperature any day during the July 31 to Dec. 31 period.  
xx% is the percent probability that a minimum temperature below the threshold will occur on or before the given date.

<sup>2</sup> **Latest** - Latest date when a minimum temperature below the threshold occurred.

July 31 to Dec. 31 period or insufficient data to determine a date.

## Spring 'Freeze' Probabilities (January 1 - July 31)

Station:(267820) STEAD

Temp F	Earliest <sup>1</sup>	90%	80%	70%	60%	50%	40%	30%	20%	10%	Latest <sup>2</sup>
36.5	05/25	05/30	05/31	06/04	06/07	06/08	06/12	06/16	06/22	06/29	07/18
32.5	04/24	04/30	05/02	05/06	05/10	05/16	05/19	05/28	06/01	06/07	06/08
28.5	03/31	04/15	04/19	04/20	04/22	04/22	04/23	04/24	05/01	05/08	05/15
24.5	03/03	03/13	03/20	04/05	04/11	04/13	04/13	04/15	04/19	04/21	05/02
20.5	02/04	02/19	03/06	03/16	03/19	03/25	03/27	04/03	04/10	04/14	04/19

### [Graphic Output](#)

<sup>1</sup>**Earliest** - Earliest date when a minimum temperature below the threshold occurred.

xx% is the percent probability that a minimum temperature below the threshold will occur on or after the given date.

<sup>2</sup>**Latest** - Latest date when a minimum temperature below the threshold occurred.

07/30 means the minimum temperature can go below the threshold temperature any day during the Jan. 1 to July 31 period.